Line. The FM IDs are also shown along the left border, and the cargo legend along the right.

Show Absolute or Cumulative Totals

Displays the values for daily movement requirements can be shown as either total daily (called **absolute**), or **Cumulative**, delivery requirements of all movement requirements in a selected FM.
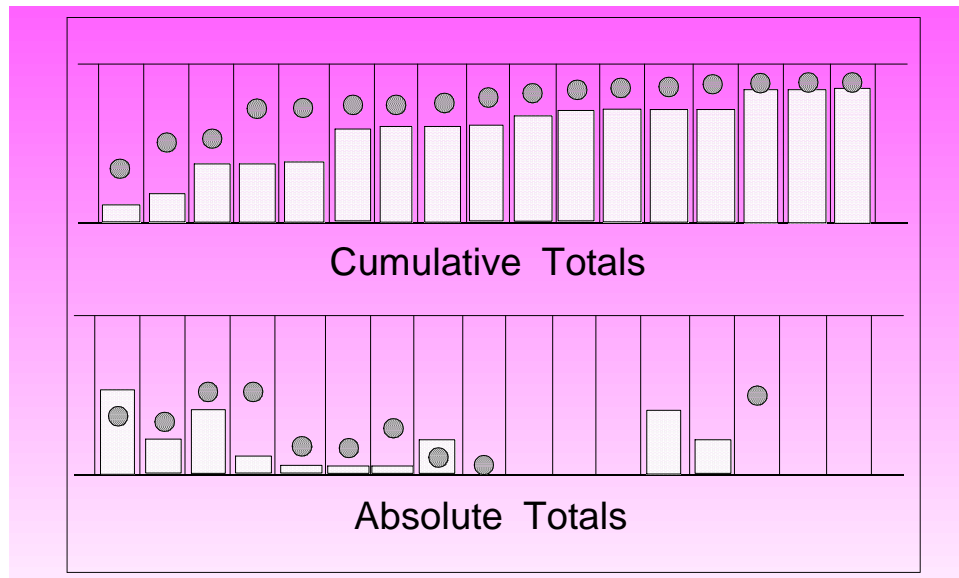

Figure 4-34: Absolute vs Cumulative Totals

Show Capability Lines or Not

The FM Analysis display can compare TPFDD movement requirements with the daily lift allocations. These lift allocations are shown as **Capability Lines**. Capability lines are entered manually and can be easily varied. The resulting charts will show spikes and slack days, and are useful for early deliberate planning and TPFDD refinement. (See section below on capability lines.)

4.14.2 Graph Symbols and Features

The symbols on the graphs are displayed in various colors, based on the requirements' transportation mode. The following color conventions are followed in this mode of the TPFDD Editor:

Color Code/
Symbol   Indication

Blue   Air Cargo
Green   Sea Cargo
Yellow   Both Air and Sea Cargo
Circles   PAX (Passengers)
Red   Capability Lines

Another special column will show "On-call" forces, if any exist.

4.14.3 Menu Bar Options

The Menu Bar options vary somewhat depending on the mode currently selected. The options
include:

Select FM   SELECT FM

Selects a new FM to analyze. Available only in "Single" mode.

Add FM   ADD FM

Adds a FM to the current FM group. This is available in "Compare
FMs" mode only.

                                                                         REMOVE FM

Remove FM

Removes a FM from the current FM group. This is available in "Compare FMs" mode
only.

Single FM/Compare FMs   COMPARE FMs   SINGLE FM

Toggles between "Compare FMs" mode and "Single"
mode.

Rescan DB   RESCAN DB

Scans the database for changes and refreshes the screen.   Always
available.

Parameters   PARAMETERS

Modifies the date and cargo parameters for the FM display. Always
available. When selected, activates a pop-up menu of these options:

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- *Set Date* (see below) (Compare mode only)

- *Set Cargo* (see below)

- *Absolute/Cumulative Display*

    Toggles the way force module data is being viewed, between Cumulative and Absolute.

- *Show/Remove Capability Lines.*

4.14.4 Set Date

Set Date is only available in **Compare FM** mode.

When selected, a pop-up menu is activated prompting the user for the type of date (RLD, ALD, EAD, LAD, EAD-LAD Avg, RDD; LAD is initial default) desired for the display; make a selection and press < **RETURN**> .

With the exception of the "Avg" date type, the cargo values for each date type are read directly from the TPFDD. The "Avg" values reflect the TPFDD requirements averaged out over their EAD-LAD window. For instance, a 100 STON TPFDD requirement with an EAD of C:11 and an LAD of C:15 would produce an "Avg" value of 20 STONS for each day of the period C:11 through C:15.

4.14.5 Set Cargo

The **Set Cargo** option sets the display to show up to three cargo/PAX types. The pop-up menu activated by this selection is as follows:

Air

    Views Air-STONS, Air-PAX, and all STONS (Air types represented in green).

Sea

    Views Sea-MTONS, Sea-Sq-Ft, and Sea-PAX (Sea types represented in green).

Combination

    Views MTONS, STONS, and PAX (Combination types represented in yellow).

Specify

Allows selection of up to three of the following cargo and PAX types: MTONS, STONS, PAX, Air-STONS, Air-PAX, Sea-MTONS, Sea-Sq-Ft, Sea-PAX, Total-CBBLs, CBBLs-Without-Water POL).

CAUTION: A maximum of three types may be selected.

The cargo types selected legend will be displayed along the right side, with color/shape symbols. The highest day requirement depicted is displayed above each cargo legend symbol. In the cumulative mode, this will be the total requirement for that cargo or PAX type. FM graphs now use the same vertical scale for like cargo (such as STONS and Air STONS).

4.14.6 FM Capability Lines

FM Capability Lines allow the comparison of FM cargo and passenger lift requirements against a series of manually-entered lift capability values.

CAUTION: The option **Show Capability Lines** must be selected first.

ASSIGN CAPABILITY LINES

To use the Capability Lines function, first select the **Show Capability Lines** option from the **Parameters Pop-up Menu**.
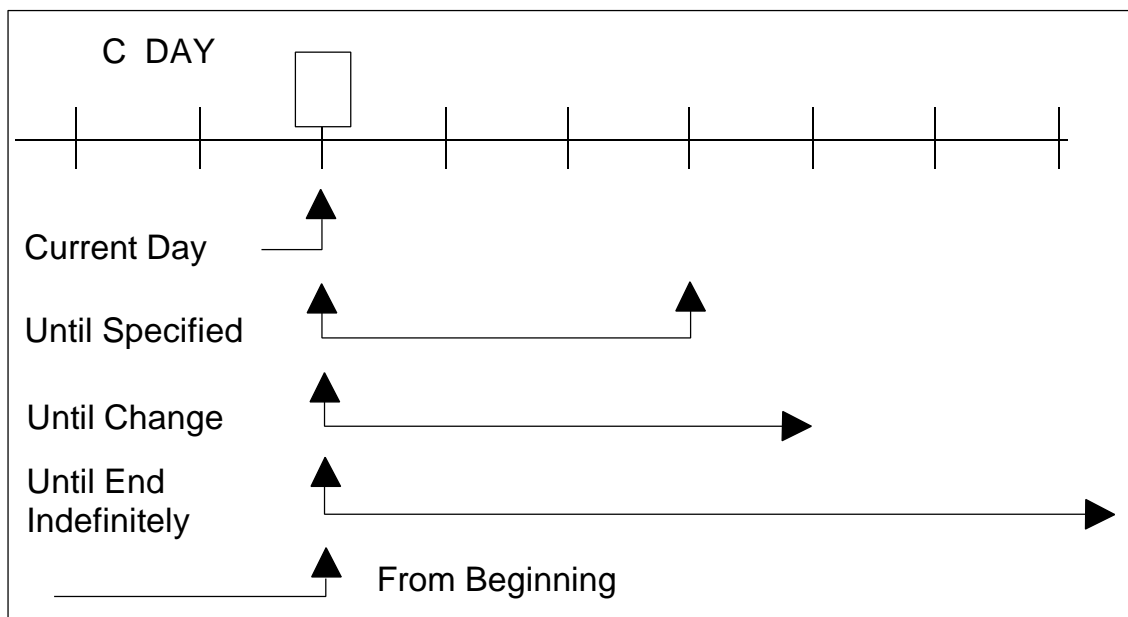

Figure 4-35: FM Capability Line Options

Then, capability lines can be assigned by clicking the left (or any) mouse button on the appropriate C-Day. This displays the C-Day pop-up menu, with varying options:

1.   A prompt for the type of cargo or PAX to set the capability against will appear. The first appearance of this pop-up menu will display the cargo and PAX types currently in view; later appearances will add "Show Limits," "Show Module Lines," and "Copy Lines," described below under View Lines.

2.   Once the type of cargo (Air STONS, Sea MTONS, etc.) has been selected, another pop-up menu with the following options will be activated:

Current C-Day

Changes the value for this C-Day only. This option prompts the user for a value for the daily capability in a subsequent window.

Until Specified

Changes the value for a range of days starting at current C-Day. A prompt will appear for the last day for which the capability value is effective. Either type in the date (as 15 for C:15) or click on the "15" in the column heading. Regardless, the value must be manually entered for the daily capability in the subsequent window.

Until Change

Changes the value for this C-Day and all later days until changed. This option prompts the user for a value for the daily capability in a subsequent window.

Until End

Changes the value for this C-Day and all later days to the end of the limits. This option prompts the user for a value for the daily capability in a subsequent window.

Indefinitely

Changes the value for this C-Day indefinitely. This option prompts the user for a value for the daily capability in a subsequent window.

From Beginning

Changes the value for this C-Day and all earlier days from the beginning of the limits. This option prompts the user for a value for the daily capability in a subsequent window.

Clear

Removes the limits for all C-Days.

New Day

Manually selects another C-Day.

These pop-up menu options will vary based on the limits which are already set. The options "Until End" and "Indefinitely" both set the capability values of the current C-Day and all later C-Days. The difference between these two options, is that when values set as "Indefinitely" are copied to other force modules, the capability value will not stop at the last C-Day of the source force module.

CAUTION: Only C-Days which have requirements are mouse-sensitive. If capability values need to be set against days with no requirements, select another C-Day, and use the "New Day" option from the above pop-up menu.

ERASE CAPABILITY LINES

To permanently erase the values used to create the capability line, use the **Clear** option.

Capability lines can also be removed from the display by selecting the **Remove Capability Lines** option from the "Parameters" pop-up menu. The latter merely hides the capability lines from the user and the capability values will not be erased by this option.

VIEW CAPABILITY LINES

After the initial capability values have been entered, use the C-Day pop-up menu to review the summary of these data points.

Select either the **Show Limits for Current Date** or the **Show Module Limits** options.

The first option provides a listing of the capability values based on the cargo type, and the latter provides a listing of the overall FM values by cargo type (all or each) and date type.

COPY CAPABILITY LINES

Another option available on the pop-up menu is **Copy Limits**. This option, depending on subsequent choices, copies the capability values from one date type to another date type within the current FM, or from one date type to the same date type in another FM.

When this option is selected, a pop-up menu with these options is activated:

< Date Type>

This option will actually show the specific date type (RLD/ALD/LAD, …) which was clicked upon. This option can be used to either copy capability values of the current date type within the current FM to other date types within the current FM, or to copy capability values from the current date type within the current FM to the same date type within another FM.

All Dates

This copies the limits for all date capability values in the current FM to the corresponding capability values in another FM.

Choose Dates

This copies the limits for a subset of date capability values in the current FM to the corresponding capability values in another FM. A prompt appears to select the dates to copy. Click on the box corresponding to each date capability value to copy. Press **< RETURN>** when all desired dates have been checked.

COPY CAPABILITY LINES TO OTHER CARGO TYPES

The user then has a choice of copying these limits across to other cargo types. The following pop-up menu will appear next:

All Cargo

Displayed Cargo

Choose Cargo.

The specified limits can be copied to all cargo categories, the currently displayed categories (from one to three), or the categories chosen on a subsequent pop-up menu; and to any of the FMs (which can then be selected).
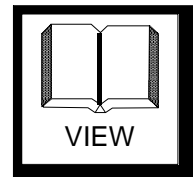
4.14.7 FM Analysis Rollback Capability

The various settings and options of the FM Analysis function are temporary, and are not retained when the TPFDD Editor is exited, with one key exception:

The capability line actions are retained. These are also listed in the TPFDD update history listing (accessed via the **Update** Icon); the sequence of capability line actions may be reviewed there, and if desired can be deleted from there.

4.15 VIEW FILES

A key function in DART is the ability to view directly several critical WWMCCS/JOPES Standard Reference Files. This function is completely independent of TPFDDs.

Query Standard Reference Files is initiated by selecting the **View Icon** from the TPFDD Editor icon bar. This function permits queries against three standard reference files. The choice of files is made by selecting the desired file name from the View Screen Menu bar:

TUCHA Unit Type

Querys the Type Unit Data (formerly Type Unit Characteristics (TUCHA) file).

GEOLOC

Querys the Geographic Location File (GEOLOC or GEOFILE).

Unit Information (UI)

Querys the Unit Information data (from the SORTS database).

The wildcard characters (% and _ (underscore)) may be used to assist retrievals. The "%" symbol represents any number of characters while the "_" (underscore) symbol represents only one character.

4.15.1 TUCHA File

Choose this option to query the TUCHA file. The top level screen looks like this:

Tucha Unit Types	(Query retrieved 10235 rows)
Query	View TUCHA Cargo Categories	Exit

Unit Type Code	01322
Short Unit Type Name	HHC INF DIV BDE
Unit Type Name	HHC INF DIV BDE LID
Unit Type Status	A
Unit Level Code	HHC
Service Code	A
Deployment Indicator Code	1
Security Class Code	U
F1 Security Class Code	U

Listbox entries: 01222, 01322, 014ZZ, 01633, 01666, 01677, 01A77, 01C66, 01P77, 01SNN, 01VNN, 01VVV, 01XXX, 01YNN, 01YXX, 01ZZZ, 021VV, 023NN, 02444, 024ZZ, 02633, 02666, 02677, 02A77, 02C66, 02JJJ, 02P77, 02SNN, 02VNN, 02XXX, 02YNN

Nonorganic PAX	123
Authorized Wartime Personnel	123
Bulk Cargo Stons	21.1
Bulk Cargo Mtons	52
Oversize Cargo Stons	182.2
Overside Cargo Mtons	829
Outside Cargo Stons	0.0
Outside Cargo Mtons	0
Non Air Cargo Stons	0.0
Non Air Cargo Mtons	0
Bulk Pol Cbbls	0

Record Indicator Code	
Originator's UIC	W0ZUFF
Reference Document	77042L000100
Replacer UTC	

Creation Date	26-Dec-1985
Cancel Date	26-Dec-1985
Change Time	11-MAR-1992 00:00:00

Figure 4-36: View TUCHA Screen

The View TUCHA function is more complex than the other view functions, because the TUCHA file provides three levels of data display. Each UTC may have one or more Cargo Category Codes (CCC), each of which may have one or more cargo details. The user may move up and down between these screens.

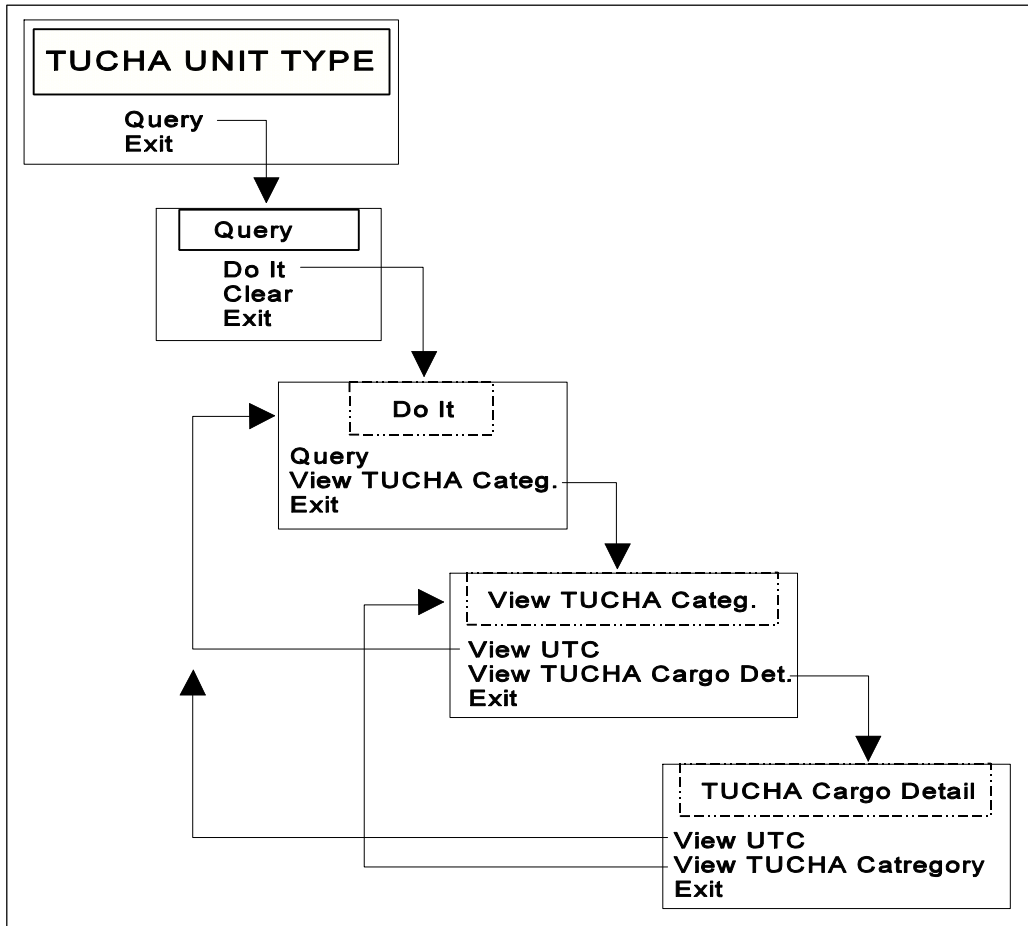The general sequence of steps is as shown in Figure 4-37.

Figure 4-37: TUCHA Query Flow

The following options are available at the top-level of the TUCHA process:

Query

Enter qualifying information in the fields provided, and/or click on one of the next set of option buttons:

- *Do It* to perform query

- *Clear* to clear current qualifying information

- *Exit* to return to the TUCHA Top-level Screen Menu Bar.

Exit

Returns to the View Screen menu bar.

After a successful retrieval, matching records are listed in a column on the left side of the screen. Click the left mouse button on the record whose detail is to be viewed. (Data is not displayed until specifically chosen.) Top level UTC data is now displayed, and the option to view the next level, TUCHA Categories, appears. The following options are available:

Query

View TUCHA Cargo Categories

Exit.

When **View TUCHA Cargo Categories** is selected, and this detail data exists, all of the cargo category codes (CCC) are listed in a column on the left side of the screen. Click the left mouse button on the record to be viewed. TUCHA Cargo Category data for the UTC previously selected is now displayed and the options to return and view UTC or to view the next level of TUCHA Cargo detail appear. The following options are available:

View TUCHA UTC

View TUCHA Cargo Details

Exit.

When **View TUCHA Cargo Details** is selected, and this detail data exists, matching cargo detail records are listed in a column on the left side of the screen. Click the left mouse button on the record to be viewed. The lowest level of detail available in the TUCHA file (4th level Cargo detail) is now displayed and the options to step back up to higher levels of detail appear. The following options are available:

View TUCHA UTC

View TUCHA CCC

Exit.

4.15.2 GEOLOC File

Choose this option to query the GEOLOC file.

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Figure 4-38: View GEOFILE

The following two selections are displayed:

Query

    Enter qualifying information in the fields provided. Once activated:

        Select *Do It* to perform query.

        Select *Clear* to clear current qualifying information.

        Select *Exit* to return to the GEOLOC Top-level menu Bar.

Exit

    Return to the View Menu Bar.

    After a successful retrieval, matching records are listed in a column on the left side of the screen. Click the left mouse button on the record whose detail is to be viewed. Data is not displayed until specifically chosen.

4.15.3 UI File

If the appropriate data has been loaded into (or made available to) the DART database from the SORTS Unit Information reference file, this data may be queried through the View function. This data is used to perform sourcing of new ULN records.

Figure 4-39: View UI File

ACCESS SORTS DATA (UNIT INFORMATION) FILE - "SMART SOURCING"

1. Click on the "Query" button.

2. Build the query by clicking on the appropriate buttons and entering the selection criteria in the pop-up dialog box.

Note: Wildcards "%" for a string and "_" (underscore) for a single character are available in building the query.

3. When satisfied with the query, click on the "Do It" button.

DART will display a list of the units that meet your selection criteria in a scroll list on the left of the screen.

4. Scroll to the desired unit identification. Click on the desired unit to display information on that unit. You can continue to scroll and click to review other units retrieved by the query or return to step one to create a new query.

4.15.4 Common Problems With Queries

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Be wary of incomplete and inconsistent data in the Standard Reference Files.

Standard reference files available through DART may not reflect the same updates as available directly through JOPES.

4.16 UPDATE

The DART database maintains a history file that lists all change actions taken during TPFDD editing sessions. This function provides user control over the change process. Changes may be made permanent, or may be discarded.
This history file is accessed through the **Update Icon** on the TPFDD Editor icon bar. This icon displays and controls the DART TPFDD Database History file. Once this icon is selected, changes made to the currently selected TPFDD will be displayed on the lower portion of the screen.

The displayed listing applies to the selected TPFDD, and shows all changes made to that TPFDD which have not been made permanent by the command **Commit**. All the changes displayed can therefore be un-done or **Rolled Back**, one-by-one, or by group, thereby restoring the TPFDD to an earlier form.

COMMIT	MARK	MAINTENANCE	PROGRAMMED UPDATES

102300	10/12/92	15:53:25	Set DESCRIPTION to 155 HOW BTRY D/S TOW M114 for U-0CFB
102301	10/12/92	15:55:45	Set DESCRIPTION to MEDIUM TANK CO 1ST MARDIV for U-0CHA
102302	10/12/92	16:00:41	Create U-0BKD and U-0BKE with UTC of 3PUEC
102303	10/12/92	16:05:43	Set PROVIDING-ORG-CODE to UG for U-0BKD and U-0BKE
102304	10/12/92	16:06:26	Set DESCRIPTION to DET, HMLA 4 AH-1W for U-0BKD and U-0BKE
102305	10/12/92	16:06:49	Set CRITICAL-INDICATOR to X for U-0BKD and U-0BKE
102306	10/12/92	16:07:47	Set RDD to 12 for U-0BKE
102307	10/12/92	16:08:20	Set ALD to 11 for U-0BKE
102308	10/12/92	16:08:35	Set RLD to 11 for U-0BKE
102309	10/12/92	16:08:43	Set RDD to 13 for U-0BKE
102310	10/13/92	07:35:17	Change 022 EAD STONS capability limits
102311	10/13/92	07:35:41	Remove 022 EAD STONS capability limits
102312	10/13/92	07:35:57	Change 022 EAD-LAD Average STONS capability limits
102313	10/13/92	07:37:43	Remove 022 EAD-LAD Average STONS capability limits
102314	10/13/92	07:39:15	Change 0NR EAD-LAD Average STONS capability limits
102315	10/13/92	07:39:38	Change 0NR EAD-LAD Average STONS capability limits
102316	10/13/92	07:39:53	Change 0NR EAD-LAD Average STONS capability limits
102317	10/13/92	07:40:06	Change 0NR EAD-LAD Average STONS capability limits
102318	10/13/92	07:40:17	Change 0NR EAD-LAD Average STONS capability limits
102319	10/15/92	10:52:04	Store note for U-0AAHP
102323	10/22/92	09:06:52	Set LAD of U-0EDD to On Call

Figure 4-40: History Listing

The listing also shows any notes that have been placed in the History file, by a user, through either the **Mark State Button** (TPFDD Editor Edit Screen) or the **Mark Button** on this screen.

CAUTION: This marking is not the same as the movement requirement marking in the Edit mode; and the notes are completely different from the notes that may be attached to movement requirements in the chart display.

4.16.1 History Listing Format

Each line of the display shows:

Update Number

This shows the three digit DART (internal) TPFDD number plus a three-digit sequence number (000-). The TPFDD number will roll-over when a hundred changes have been made to the TPFDD. (This does not affect the basic TPFDD number scheme.)

Date and time of change

Designation of change, or remark note.

The display may be scrolled using the scroll bar along the left side.

4.16.2 Menu Bar Options

Options are available both by placing the mouse on a line, and by selecting one of the menu bar options.

The following options are available on the menu bar option line:

Commit   Select the Commit Button when ready to commit all of the changes to the current TPFDD. Committing the changes makes them permanent and the database can no longer be rolled back.

> *CAUTION*:   Do not perform the **Commit** option without the full coordination of all concerned. Partial commits may be made via the **Commit Forward** option.

Mark   Select this option to add a note at the current position in the history file.

> *CAUTION*:   This marking is not the same as the movement requirement marking in the Edit mode.

Maintenance Maintenance should only be performed by the System Administrator. This option checks for error conditions in

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backup tables. A pop-up menu containing the following maintenance options will be activated:

- *Scan*   Searches the current TPFDD for internal error conditions in the backup tables.

- *Scan All*   Searches all TPFDDs for internal error conditions in the backup tables.

- *Repair*   Attempts to repair internal error conditions in the backup tables for the current TPFDD.

- *Repair All* Attempts to repair internal error conditions in the backup tables for all TPFDDs.

For additional information on these options, see the System Administrator Manual.

Programmed Updates

Select this option to update the TPFDD with the PFE generated date changes. This option relates to the **Save TPFDD Changes** selection in the PFE Force Module Timeline Display.

4.16.3 Mouse Selectable Options

By selecting any entry in the history file, and clicking the left mouse button, a menu of further options appears.

Undo   A rollback option - (refer to paragraph 4.16.4.).

Back To   A rollback option - (refer to paragraph 4.16.4.).

Commit Forward   This option allows the partial commit of all changes made from the earliest displayed, up to the entry selected, including all between. This feature is useful for maintaining control over the changes uploaded to JOPES through the Transaction Processing Function (see "Upload" above). After an upload Transaction File has been produced for JOPES, the selected TPFDD should be committed forward to include all uploaded changes. This ensures that duplicate changes will not be uploaded to JOPES again, at some later time.

Upload   Generates an update transaction file which may subsequently be applied to the JOPES database via JOPES Module U2, Transaction Editor. This file is located on the Sun server (or workstation if stand alone) in the "/tmp" directory. This file may be transferred to a WWMCCS file.

The file will be in ASCII format and must be converted to BCD before using the JOPES module U2. This procedure should be coordinated with the System Administrator.

4.16.4 Rollback Database Options

Undesired changes to the TPFDD can be rolled back (beginning with the last change made).

To rollback changes made since the last commit, click the left mouse button on the change where the rollback should occur. Different options are available at this point.
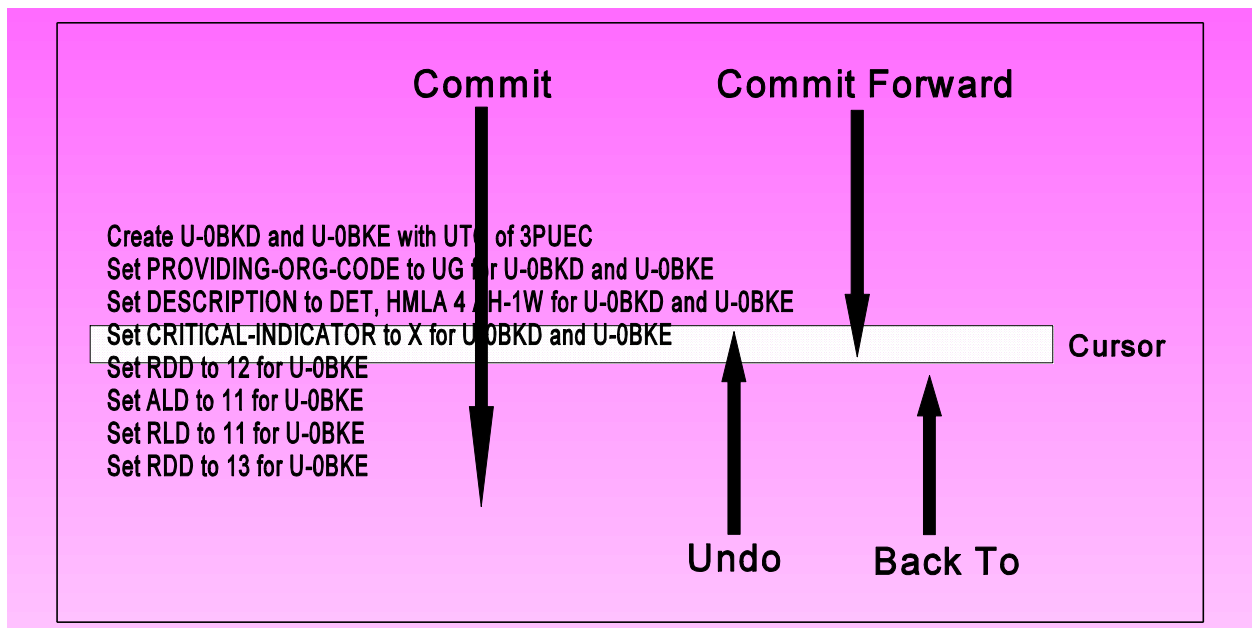

Figure 4-41: Rollback and Commit Options

From the following pop-up menu, choose either of these options:

Undo　　　　This option will restore the database from changes made <u>after and including</u> the change clicked on.

Back To　　　This option will restore the database from changes made <u>after but not including</u> the change clicked on.

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4.16.5 Common Problems With Updates

For very extensive edit and change actions, the changes may be grouped and listed by hundreds of update actions per history file entry line. Massive roll-backs of these entries may be very time consuming, and may cause errors; in that case partial rollbacks, line by line, may be advisable.